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(71) Applicant: NATIONAL INSTITUTE OF **ADVANCED INDUSTRIAL &**

TECHNOLOGY

FUJI XEROX CO LTD

(72) Inventor:

SAKAKIBARA YOICHI

TOKUMOTO MADOKA TATSUURA SATOSHI ACHINAMI HIROTSUGU KATAURA HIROMICHI

(54) OPTICAL ELEMENT AND METHOD FOR MANUFACTURING THE SAME

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a very inexpensive and highly efficient nonlinear optical element which is operable in a communication wavelength region by applying single wall carbon nanotubes to the optical element, and to provide a method for manufacturing the optical element.

SOLUTION: The optical element has a thin film consisting of the laminated single wall carbon nanotubes and utilizes its saturable absorbing function. The optical element is manufactured by preparing a dispersion liquid by dispersing the single wall carbon nanotubes in a dispersion medium and forming the thin film by spray-coating a material to be coated with the dispersion liquid.

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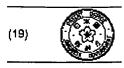












APANESE PATENT OFFICE

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> JP2003121892A2: OPTICAL ELEMENT AND METHOD FOR MANUFA

> > THE SAME

Optical element contains film formed by laminating single wall carbon Prwent Title:

nano-tubes and uses its saturation absorption functions [Derwent Record]

JP Japan ② Country:

> A2 Document Laid open to Public inspection i

SAKAKIBARA YOICHI:

TOKUMOTO MADOKA: TATSUURA SATOSHI: **ACHINAMI HIROTSUGU**; KATAURA HIROMICHI;

NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL & TECHNOLOGY

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2001-10-18 JP2001000320383 Priority Number:

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